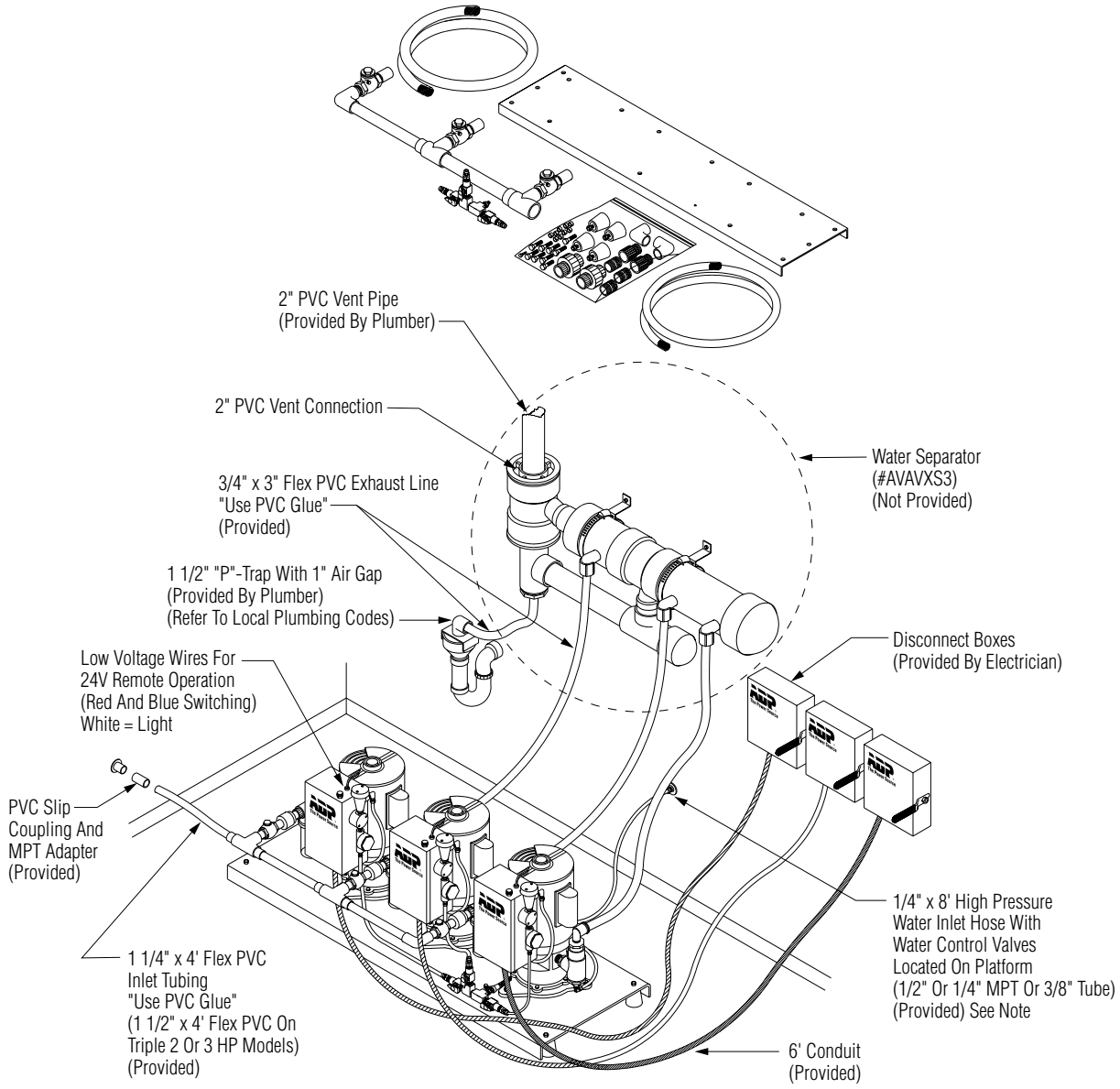
Installation Instructions

Twin Vacuum To Triple Vacuum Conversion Kit

Part #AVA85195



CAUTION: Never Operate Equipment Without Complete And Proper Grounding.

Description:

Apollo Dental Products Vacuum Systems Triple Conversion Kit was developed to allow for expansion of an existing Apollo Twin Vacuum System to a triple vacuum system in the event vacuum needs outgrow current capacity. The kit includes: intake manifold, check valve assembly, exhaust hose elbow assembly, water supply assembly, mounting plate, and all the plumbing and hardware necessary to make the conversion. The kit is an attractive alternative to simply replacing the system in that it offers substantial cost savings. It is important when upgrading a system, to use pumps of equal horsepower and construction. Failure to do so will result in poor performance and premature failure.

Installation:

1. Turn power **OFF** to vacuum at main circuit breaker panel.
2. Place the **ON/OFF** valve at the water supply manifold in the **"OFF"** position and disconnect water supply poly-flow lines from the **ON/OFF** supply manifold..
3. Disconnect exhaust lines from either the sewage termination, or exhaust separator.
4. Remove pumps from the twin mounting base and retain all mounting hardware.
5. Using the 5/16" x 1 1/4" long bolts, mount all three pumps onto the triple platform with the 1/4" x 5/16" ID spacers between the pumps and the mounting plate.

   NOTE: Elevate the platform solidly - approximately 3 to 4 inches for easy access to pump mounting hardware.
6. Remove rubber feet from twin mounting plate and install same feet on triple mounting plate.
7. Remove the straight poly-flow connector from the water supply manifold tee.
8. Insert the provided street tee assembly with poly-flow elbow into end of water supply manifold. Re-install the straight poly-flow connector into the end of the new manifold.
9. Connect poly-flow tube line from pump water strainer inlet fittings to new water supply manifold.
10. Remove the hose adapter fitting from the new pump exhaust and install the new exhaust hose elbow assembly into it's exhaust outlet
11. Attach 3/4" flex tube PVC exhaust/drain hoses to a exhaust separator or sewage connection and glue with PVC type cement. A triple exhaust separator kit may be required (#AVAVXS3).
12. Connect high voltage electrical supply line to the new pump as indicated in the electrical diagram. **See pump Installation Manual pages 4 and 5.**
13. For low voltage remote control of the individual pumps, an ADP Triple Vacuum Master Control Panel is required to operate third vacuum unit. Wire 3rd switch red to red and blue to blue, connect white for light.

    Using a two vacuum switch panel, connect the red and blue low voltage wires to the new pump to red and blue wire connections of the middle pump. **Do not connect the white low voltage wire.**
14. Install the check valve assembly into the new vacuum pump strainer.
15. Push on the triple vacuum intake manifold, glue with PVC type cement and connect the vacuum line from operatories.
16. Switch vacuum main circuit breaker **ON**. Each pump should be started separately to check performance and there are no leaks.
17. Check exhaust tubing to ensure that water is flowing through the pumps.

    IMPORTANT: Do not run pump without full pressure water supply as serious pump seal damage will result.
18. Check vacuum gauge to ensure that the pump is functioning properly. Vacuum relief is factory preset for 10 inches Hg vacuum. All relief valves should be set for the same vacuum relief pressure.

Warranty Information: 90 Days

All ADP accessories are thoroughly inspected and tested in accordance with rigid specifications and standards. Our accessories are guaranteed against any defective material and workmanship from the date of shipment; provided that the installation, operation, and maintenance is done in accordance with ADP procedures as outlined in our Installation and Maintenance Guides. Warranty cards must be returned to ADP within ten days of installation to effect warranty. No other warranties or guarantees, expressed or implied are made.

ADP's obligation under the warranty is to provide parts for the repair or, at its option, to provide the replacement product (excluding labor). All special, incidental and/or consequential damages are excluded. We will not issue credit for accessories without first attempting to correct the problem in the field. Written notice of breach of warranty must be given to ADP within the warranty period. The warranty does not cove damage resulting form improper installation or maintenance, accident or misuse. The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilizing chemicals and processes. The warranty does not cover vacuum failures due to hard water deposits. Failure to follow instructions provided in ADP's Installation and Maintenance Guides may void the warranty.